

DOE Reprocessing Waste and DOE Spent Nuclear Fuel Inventories

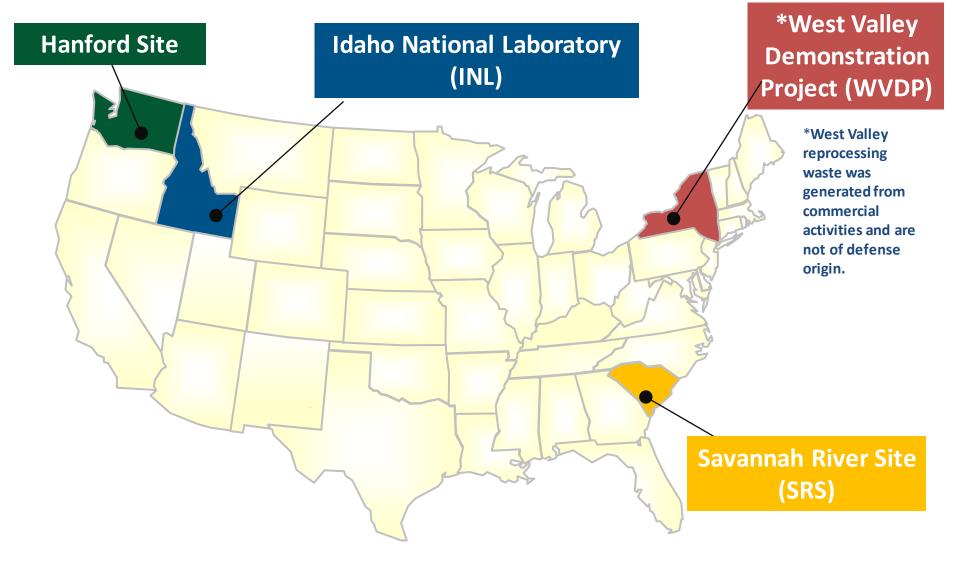
Mark Gilbertson

Associate Principal Deputy Assistant Secretary for Regulatory & Policy Affairs

Energy Communities Alliance Webinar on High-Level Radioactive Waste February 24, 2021



DOE Reprocessing Waste Locations



Site		Inventory		Key Facilities
Hanford	•	56 million gallons of tank waste	•	177 Tanks Waste Treatment and Immobilization Plant Integrated Disposal Facility (low-activity waste)
INL	•	900,000 gallons of sodium-bearing waste 4,4000 cubic meters of calcine	•	Integrated Waste Treatment Unit Bin sets 1-6 (calcine storage)
SRS	•	~4,190 glass canisters in storage ~4,000 projected glass canisters	•	Glass Waste Storage Buildings Defense Waste Processing Facility Salt Waste Processing Facility
WVDP	•	278 glass canisters	•	Dry Cask Storage Area

ENVIRONMENTAL Operating DOE & Commercial Disposal Facilities



TOE Disposal Facility Commercial Disposal Facility

CERCLA - Comprehensive Environmental Response, Compensation and Liability Act; RCRA - Resource Conservation and Recovery Act

Recent Site Accomplishments

Hanford

OFFICE OF

ENVIRONMENTAL MANAGEMENT



Construction completed at Low-Activity Waste Facility (vitrification)



Hot Commissioning of Salt Waste Processing Facility **SRS**

- INL



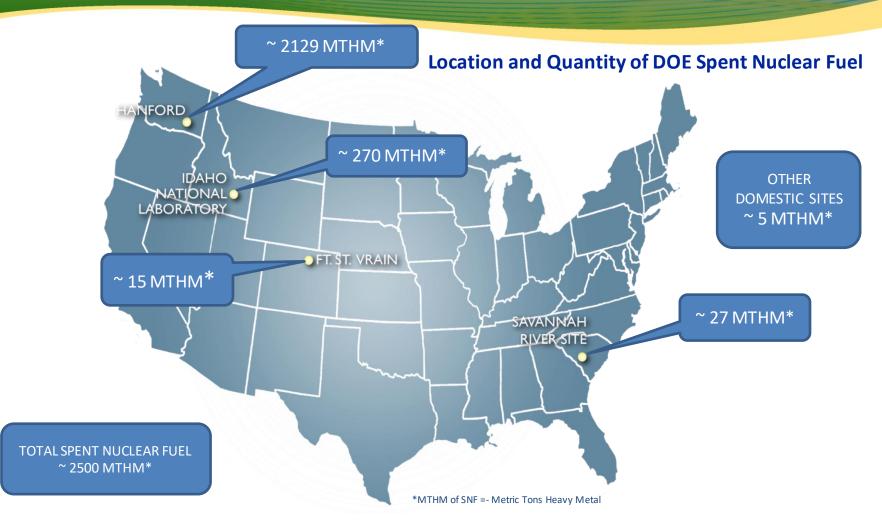
Progress toward start-up of Integrated Waste Treatment Facility



Calcine retrieval demonstration

Spent Nuclear Fuel

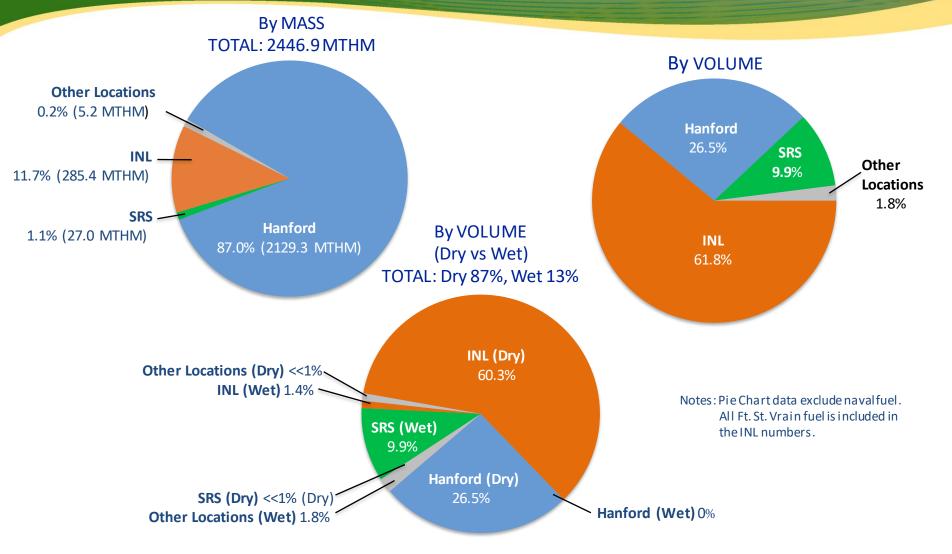




SNF is safely stored at four DOE sites. Minor amounts are stored at other locations, such as university research reactors.

OFFICE OF ENVIRONMENTAL MANAGEMENT

Current SNF by Location



Most SNF by mass is stored at Hanford, by volume at INL, and the majority is in dry storage.





- Protection of the surrounding communities and the environment are paramount to the Department of Energy's Office of Environmental Management (EM).
- EM will work with the new Administration and the local communities on the path forward for these reprocessing wastes and DOE SNF.
- EM will continue to execute timely decisions and innovative solutions for reprocessing waste and SNF until a disposal facility is available.